

Appointing an assistant to move the Prism to and fro about its Axis, that all the Colours might successively fall on that part of the Paper which I saw by reflexion from that part of the Glasses, where the Circles appeared, so that all the Colours might be successively reflected from the Circles to my Eye whilst I held it immovable, I found the Circles which the red Light made to be manifestly bigger than those which were made by the blue and violet. And it was very pleasant to see them gradually swell or contract according as the Colour of the Light was changed. The interval of the Glasses at any of the Rings when they were made by the utmost red Light, was to their interval at the same Ring when made by the utmost violet, greater than as 3 to 2, and less than as 13 to 8, by the most of my Observations it was as 14 to 9. And this proportion seemed very nearly the same in all obliquities of my Eye; unless when two Prisms were made use of instead of the Object-Glasses. For then at a certain great obliquity of my Eye, the Rings made by the several Colours seemed equal, and at a greater obliquity those made by the violet would be greater than the same Rings made by the red. The refraction of the Prism in this case causing the most refrangible rays to fall more obliquely on that plate of the Air than the least refrangible ones. Thus the Experiment succeeded in the coloured Light, which was sufficiently strong and copious to make the Rings sensible. And thence it may be gathered, that if the most refrangible and least refran-

refrangible rays have
Rings sensible with
proportion which is
little greater, suppo-

Whilst the Prism in
uniform motion, the
successively upon the
make the Rings con-
or dilation of each
its Colour was swel-
violet, and in the
mediate degrees of
of contraction and
each Colour, I found
less in the yellow,
violet. And to make
proportions of their
that the whole con-
of any Ring made by
of the Diameter of
degrees of violet, as ab-
that when the Light
yellow and green,
nearly an arithmeti-
meter of the same
the least Diameter to
Contrary to what has
Spectrum made by
red is most contract